

c.) Amendments to the Claims**Status Identifiers of the Claims**

1. (Cancelled)
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19. (Cancelled)
20. (Cancelled)
21. (New)
22. (New)
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24. (New)
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26. (New)
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29. (New)

30. (New)

31. (New)

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34. (New)

35. (New)

36. (New)

37. (New)

38. (New)

Listing of Claims

Claim 1-20 (cancelled)

21. (New): A protein standard comprising a collection of polypeptides wherein;

- (a) the protein standard contains at least three polypeptides of different known size and of different known amount;
- (b) the size of all of the polypeptides covers a range that is separable by a given polyacrylamide gel electrophoresis;
- (c) the amounts of all of the polypeptides cover a range that is detectable by a given detection assay; and
- (d) the amounts of polypeptides represent different amounts of a known protein.

22. (New): The protein standard according to claim 21, wherein the known protein is a commonly used quantity standard protein such as bovine serum albumin, lysozyme, or IgG.

23. (New): The protein standard according to claim 21, wherein the known protein is any chosen protein with known size and quantity.
24. (New): The protein standard according to claim 21, wherein detection intensity of the detection assay is related to the polypeptide amount.
25. (New): A protein standard kit comprising a carrier means having in close confinement therein at least one container means contains the protein standard according to claim 21.
26. (New): A method of using a protein standard to estimate the size and the amount of the polypeptide in a protein sample comprising:
- (a) electrophoresing simultaneously in separate lanes on a gel the protein standard of claim 21 and the protein sample;
 - (b) detecting the polypeptides on the gel with a detection assay to obtain relative positions and relative detection intensities of the polypeptides;
 - (c) comparing the relative positions of polypeptides of said protein standard with the relative position of polypeptide in the protein sample to estimate its size; and
 - (d) comparing the relative detecting intensities of polypeptides of said protein standard with the relative detecting intensity of polypeptide in the protein sample to estimate its amount.
27. (New): The method according to claim 26, wherein detection intensity of the detection assay is related to the polypeptide amount.
28. (New): The method according to claim 26, wherein the protein sample contains one or more polypeptides.

29. (New): A method of preparing a protein standard comprising:

- (a) obtaining at least three polypeptides with different sizes;
- (b) estimating the amount of each of the polypeptides with a detection assay using different amounts of a known protein as standard; and
- (c) combining the polypeptides such that each has different size from one another and different amount from one another.

30. (New): The protein standard according to claim 29, wherein the known protein is a commonly used quantity standard protein such as bovine serum albumin, lysozyme, or IgG.

31. (New): The protein standard according to claim 29, wherein the known protein is any chosen protein with known size and quantity.

32. (New): The method according to claim 29, wherein the detection assay is same as the detection assay of using the protein standard.

33. (New): The method according to claim 29, wherein the sizes of the polypeptides in the protein standard is separable by a given polyacrylamide gel electrophoresis.

34. (New): The method according to claim 29, wherein the amounts of the polypeptides in the protein standard is detectable by a given detection assay.

35. ((New): The method according to claim 29, wherein the amount of each of the polypeptides is estimated by relative detection intensity of a protein assay.

36. (New): The method according to claim 35, wherein detection intensity of the protein assay is related to the polypeptide amount.

37. (New): The method according to claim 29, wherein the amount of each of the polypeptides is estimated by polyacrylamide gel electrophoresis followed by a detection assay.

38. (New): The method according to claim 37, wherein detection intensity of the detection assay is related to the polypeptide amount.